

1N4148WXL

High Speed Switching Diode 200mW

Features

- Halogen free available upon request by adding suffix "-HF"
- Lead Free Finish/RoHS Compliant ("P" Suffix designates RoHS Compliant. See ordering information)
- Surface Mount Package Ideally Suited for Automatic Insertion
- For General Purpose Switching Applications
- Fast Switching Speed

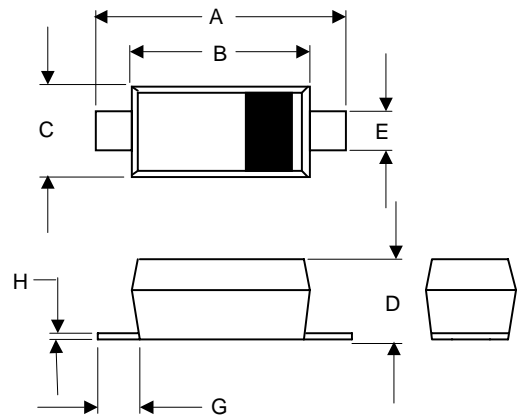
Mechanical Data

- Marking : T4/S1
 - Terminals: Solderable per MIL-STD-202, Method 208
 - Polarity: Indicated by Cathode Band
 - Weight: 0.008 grams (approx.)
 - Moisture Sensitivity: Level 1 per J-STD-020C
 - Epoxy meets UL 94 V-0 flammability rating
- Moisture Sensitivity Level 1

Maximum Ratings @ 25°C Unless Otherwise Specified

Peak Repetitive Reverse Voltage	V_{RM}	100	V
RMS Reverse Voltage	$V_{R(RMS)}$	71	V
Average Rectified Output Current	I_o	150	mA
Peak Forward Surge Current $t=1\mu s$	I_{FSM}	4.0	A
Power Dissipation	P_D	200	mW
Thermal Resistance	R_{JA}	625	K/W
Operation/Storage Temp. Range	T_j, T_{STG}	-65 to +150	°C

SOD-323FL

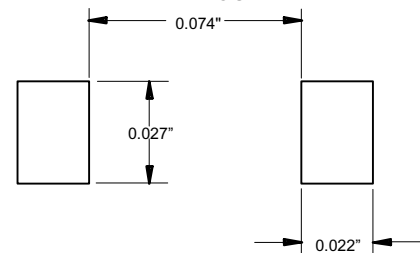


DIM	DIMENSIONS				NOTE
	INCHES		MM		
	MIN	MAX	MIN	MAX	
A	.090	.107	2.30	2.70	
B	.063	.078	1.60	1.95	
C	.045	.053	1.15	1.35	
D	.024	.035	0.60	0.90	
E	.010	.016	0.25	0.40	
G	.016		0.40		
H	.002	.008	0.05	0.21	

Electrical Characteristics @ 25°C Unless Otherwise Specified

Maximum Instantaneous Forward Voltage	V_F	0.715V 0.855V 1.00V 1.25V	$I_f=1mA$ $I_f=10mA$ $I_f=50mA$ $I_f=100mA$
Maximum DC Reverse Current At Rated DC Blocking Voltage	I_R	25nA 30µA 5.0µA	$V_R=25V, T_J=25^\circ C$ $V_R=25V, T_J=150^\circ C$ $V_R=75V, T_J=25^\circ C$
Typical Junction Capacitance	C_J	1.5pF	$V_R=0V, f=1MHz$
Maximum Reverse Recovery Time	T_{rr}	4nS	$I_R=I_F=10mA$ $I_{rr}=0.1 \cdot I_R$ $R_L=100\Omega$

SUGGESTED SOLDER PAD LAYOUT



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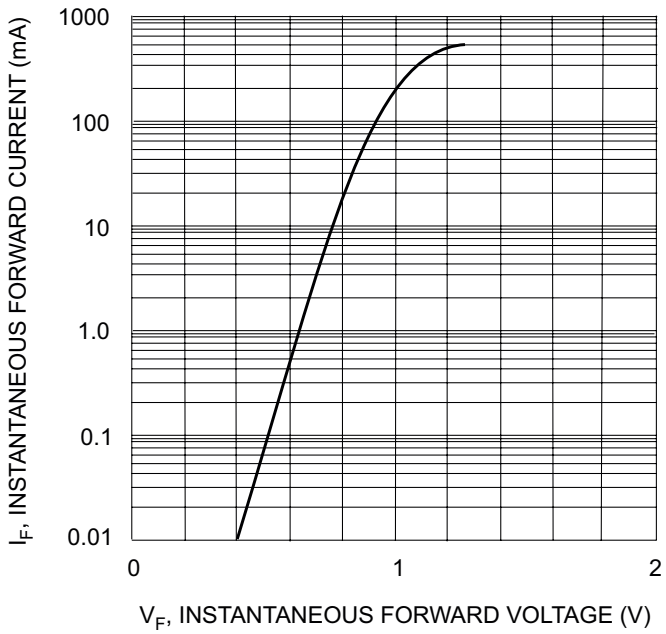


Fig. 1 Forward Characteristics

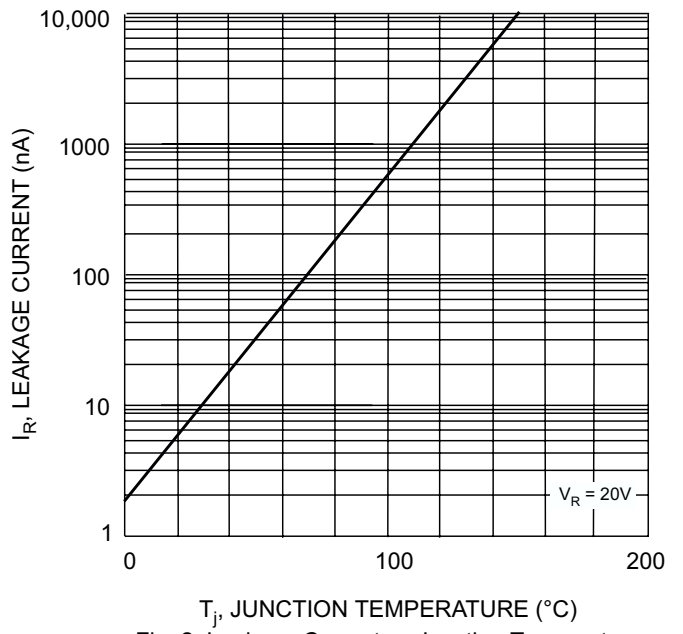


Fig. 2 Leakage Current vs Junction Temperature



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Ordering Information :

Device	Packing
Part Number-TP	Tape&Reel: 3Kpcs/Reel

Note : Adding "-HF" suffix for halogen free, eg. Part Number-TP-HF

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